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DERWENT-ACC-NO: 2002-393617

DERWENT-WEEK: 200322

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TITLE: Separation and recovery of target
polymers and additives
from plastic material, e.g. for
reprocessing polyvinyl
butyral, involves dissolving in
solvent, precipitating
polymer with a non-solvent and
leaving additives in
solution

INVENTOR: KIPPENHAHN, R; KNAUF, U ; LUCK, T ; MAEURER, A ;
SCHLUMMER, M ; WOLZ,
G

PATENT-ASSIGNEE: FRAUNHOFER GES FOERDERUNG
ANGEWANDTEN[FRAU]

PRIORITY-DATA: 2000DE-1039363 (August 11, 2000)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	
LANGUAGE		MAIN-IPC	
WO 200214413 A1		February 21, 2002	G
034	C08J 011/08		
DE 10039363 A1		March 7, 2002	N/A
000	C08J 011/08		
AU 200181810 A		February 25, 2002	N/A
000	C08J 011/08		

DESIGNATED-STATES: AE AG AL AM AT AU AZ BA BB BG BR BY BZ
CA CH CN CO CR CU CZ
DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE
KG KP KR KZ LC LK
LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD
SE SG SI SK SL TJ
TM TR TT TZ UA UG US UZ VN YU ZA ZW AT BE CH CY DE DK EA ES
FI FR GB GH GM GR

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N/A		
JP 3217370B2	Based on	WO 9510561
N/A		
EP 737225B1	N/A	
1994EP-0930517	October 6, 1994	
EP 737225B1	N/A	
1994WO-US11044	October 6, 1994	
EP 737225B1	Based on	WO 9510561
N/A		

INT-CL (IPC): C08J011/04, C08J011/06 , C08K005/10 ,
C08K005/11 ,
C08L023/16 , C08L029/14 , C08L077/00 , C08L077/02 ,
C08L029:14 ,
C08L077/00 , C08L029:14 , C08L077/00

ABSTRACTED-PUB-NO: EP 737225B

BASIC-ABSTRACT:

The compsn. consists of a uniform blend of: (a) 50-90 wt. % of a polyamide, melt processable at 180-270 deg.C; (b) 50-10 wt. % of recovered plasticised polyvinyl butyral, with the amt. of plasticiser being 15-35 wt. % and (c) 0-10 wt. % of an elastomer which is either an ethylene copolymer with at least one other alpha-olefin or an EPDM rubber with the elastomer having pendant succinic anhydride gps. The blend comprises the polyamide as matrix and the plasticised polyvinylbutyral as the dispersed phase together with any elastomer that may be present. The compsn. consists of the above blend with the proviso that: (i) when the elastomer is not present, the amt. of polyamide is 50-75 wt. % and the amt. of polyvinylbutyral is 25-50 wt. % and the blend has a notched Izod impact strength of at least 200 J/m and a flexural modulus of at least 1000 MPa; or (ii) when the elastomer is present, the amt. of polyamide is 70-85 wt. % and the amt. of polyvinylbutyral is 10-25 wt. % and the blend has a notched Izod

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impact strength of at least 500 J/m and a flexural modulus of 1700 MPa.

USE - To form films or thermoformable sheets (claimed) as packaging materials.
The compsn. may also be used to form an inner barrier in a multilayer structure (claimed).

ADVANTAGE - The amt. of required polyvinylbutyral is reduced, allowing good flexural modulus whilst maintaining toughness.

ABSTRACTED-PUB-NO: US 5770654A

EQUIVALENT-ABSTRACTS:

The compsn. consists of a uniform blend of: (a) 50-90 wt. % of a polyamide, melt processable at 180-270 deg.C; (b) 50-10 wt. % of recovered plasticised polyvinyl butyral, with the amt. of plasticiser being 15-35 wt. % and (c) 0-10 wt. % of an elastomer which is either an ethylene copolymer with at least one other alpha -olefin or an EPDM rubber with the elastomer having pendant succinic anhydride gps. The blend comprises the polyamide as matrix and the plasticised polyvinylbutyral as the dispersed phase together with any elastomer that may be present. The compsn. consists of the above blend with the proviso that: (i) when the elastomer is not present, the amt. of polyamide is 50-75 wt. % and the amt. of polyvinylbutyral is 25-50 wt. % and the blend has a notched Izod impact strength of at least 200 J/m and a flexural modulus of at least 1000 MPa; or (ii) when the elastomer is present, the amt. of polyamide is 70-85 wt. % and the amt. of polyvinylbutyral is 10-25 wt. % and the blend has a notched Izod impact strength of at least 500 J/m and a flexural modulus of 1700 MPa.

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USE - To form films or thermoformable sheets (claimed) as packaging materials.
The compsn. may also be used to form an inner barrier in a multilayer structure (claimed).

ADVANTAGE - The amt. of required polyvinylbutyral is reduced, allowing good flexural modulus whilst maintaining toughness.

The compsn. consists of a uniform blend of: (a) 50-90 wt. % of a polyamide, melt processable at 180-270 deg.C; (b) 50-10 wt. % of recovered plasticised polyvinyl butyral, with the amt. of plasticiser being 15-35 wt. % and (c) 0-10 wt. % of an elastomer which is either an ethylene copolymer with at least one other alpha -olefin or an EPDM rubber with the elastomer having pendant succinic anhydride gps. The blend comprises the polyamide as matrix and the plasticised polyvinylbutyral as the dispersed phase together with any elastomer that may be present. The compsn. consists of the above blend with the proviso that: (i) when the elastomer is not present, the amt. of polyamide is 50-75 wt. % and the amt. of polyvinylbutyral is 25-50 wt. % and the blend has a notched Izod impact strength of at least 200 J/m and a flexural modulus of at least 1000 MPa; or (ii) when the elastomer is present, the amt. of polyamide is 70-85 wt. % and the amt. of polyvinylbutyral is 10-25 wt. % and the blend has a notched Izod impact strength of at least 500 J/m and a flexural modulus of 1700 MPa.

USE - To form films or thermoformable sheets (claimed) as packaging materials.
The compsn. may also be used to form an inner barrier in a multilayer structure (claimed).

ADVANTAGE - The amt. of required polyvinylbutyral is

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reduced, allowing good
flexural modulus whilst maintaining toughness.

WO 9510561A

CHOSEN-DRAWING: Dwg.0/1

TITLE-TERMS: COMPOSITION FILM SHEET UNIFORM BLEND POLYAMIDE
RECOVER PLASTICISED
POLYVINYL BUTYRAL OPTION ELASTOMER POLYETHYLENE
COPOLYMER PENDANT
SUCCINIC ANHYDRIDE GROUP

DERWENT-CLASS: A23 A92

CPI-CODES: A05-F01B2; A07-A04E; A09-A09; A10-E02; A12-P01;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

017 ; P0646 P0635 F70 D01 D11 D10 D50 D86 ; S9999 S1581
; S9999

S1649*R ; S9999 S1434

Polymer Index [1.2]

017 ; P0668 P0635 F70 D01 D11 D10 D50 D91 ; S9999
S1649*R ; S9999

S1581 ; S9999 S1434

Polymer Index [1.3]

017 ; P0679 P0635 F70 D01 D11 D10 D50 D92 ; S9999 S1581
; S9999

S1649*R ; S9999 S1434

Polymer Index [1.4]

017 ; P0704 P0635 F70 D01 D11 D10 D50 D93 E17 E00 ;
S9999 S1581

; S9999 S1649*R ; S9999 S1434

Polymer Index [1.5]

017 ; E18 E00 D01 D11 D10 D50 D94 ; P0635*R F70 D01 ;
S9999 S1581

; S9999 S1649*R ; S9999 S1434

Polymer Index [1.6]

017 ; R00776 G2084 D01 D23 D22 D31 D41 D50 D86 F71 ;
R01060 G1343

G1310 D01 D11 D10 D50 D60 D86 F37 F35 E00 E13 ; R01062
G1672 G1649

D01 D11 D10 D50 D86 F09 F07 ; P0726 P0635 F70 D01 D11
D10 D50 E13

E00 ; S9999 S1581 ; S9999 S1649*R ; S9999 S1434 ; H0033
H0011

Polymer Index [1.7]
 017 ; P1672 P1865 D01 ; S9999 S1581 ; S9999 S1649*R ;
 S9999 S1434
 Polymer Index [1.8]
 017 ; G0817*R D01 D51 D54 ; R00326 G0044 G0033 G0022
 D01 D02 D12
 D10 D51 D53 D58 D82 ; R00964 G0044 G0033 G0022 D01 D02
 D12 D10 D51
 D53 D58 D83 ; H0033 H0011 ; H0124*R ; S9999 S1581 ;
 S9999 S1649*R
 ; S9999 S1434 ; P1150
 Polymer Index [1.9]
 017 ; H0022 H0011 ; R00326 G0044 G0033 G0022 D01 D02
 D12 D10 D51
 D53 D58 D82 ; G0033*R G0022 D01 D02 D51 D53 D12 D10 D58
 ; H0124*R
 ; M9999 M2391 ; P1150
 Polymer Index [1.10]
 017 ; ND04 ; K9745*R ; K9676*R ; K9483*R ; Q9999
 Q8366*R ; B9999
 B4159 B4091 B3838 B3747 ; B9999 B4193 B4091 B3838 B3747
 ; B9999
 B4046 B3930 B3838 B3747 ; B9999 B3623 B3554 ; N9999
 N6439 ; N9999
 N6177*R ; N9999 N6440*R ; N9999 N6279 N6268 ; N9999
 N6780*R N6655
 ; N9999 N6600 ; B9999 B3601 B3554
 Polymer Index [1.11]
 017 ; A999 A384

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1995-074932

DERWENT-ACC-NO: 1975-72537W

DERWENT-WEEK: 197544

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TITLE: Extruding plastic sheets with
uniform thickness - by
precisely controlling flow rates of
raw materials and
recycled materials

PATENT-ASSIGNEE: DYNAMIT NOBEL AG[DYNN]

PRIORITY-DATA: 1974DE-2426714 (June 1, 1974)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	
LANGUAGE		MAIN-IPC	
BE 829649 A		September 15, 1975	N/A
000	N/A		
BR 7503337 A		May 25, 1976	N/A
000	N/A		
CA 1058362 A		July 17, 1979	N/A
000	N/A		
DE 2426714 A		December 11, 1975	N/A
000	N/A		
DE 2426714 B		January 13, 1977	N/A
000	N/A		
FR 2275296 A		February 20, 1976	N/A
000	N/A		
GB 1505512 A		March 30, 1978	N/A
000	N/A		
IT 1035491 B		October 20, 1979	N/A
000	N/A		
JP 51005365 A		January 17, 1976	N/A
000	N/A		
JP 85031649 B		July 23, 1985	N/A
000	N/A		
SU 639428 A		February 12, 1979	N/A
000	N/A		
US 4013745 A		March 22, 1977	N/A
000	N/A		
US 579153 A		March 30, 1976	N/A

000

N/A

INT-CL (IPC): B29B005/06, B29C017/08 , B29C029/00 ,
B29C047/10 ,
B29D007/02 , B29F003/02 , B29K055/00 , B29K105/26 ,
B29L007/00 ,
G05D011/13

ABSTRACTED-PUB-NO: BE 829649A

BASIC-ABSTRACT:

Extrusion of plastic sheets, esp. polyvinyl-butyril contg.
a plasticiser for
use in safety glass laminates, is effected by extruding the
raw matl. together
with recycled waste matl. e.g. the edge strips, using an
extruder, a pump for
the molten mass, a shaping die with a wide slit, and normal
feed devices for
the raw matls. Recycling of waste matl. is effected by
(a) grinding this
matl. (b) immediately weighing the ground matl. to be
recycled (c)
continuously subtracting the measured amt. per unit of time
from the
theoretical value of a flow regulator for the devices for
feeding the raw
matls. in order to control the feed to the extruder, and
(d) maintaining the
degree of filling of the extruder at a constant value, as
measured by the
pressure of the mass between the extruder and the pump for
the molten mass.
Max, recycling of waste matl. with excellent control of
the total amt. of
matl. applied to the extruder per unit of time.
Consequently the extended
sheets have a very uniform thickness, and this thickness
can be controlled
accurately.

TITLE-TERMS: EXTRUDE PLASTIC SHEET UNIFORM THICK PRECISION
CONTROL FLOW RATE
RAW MATERIAL RECYCLE MATERIAL

DERWENT-CLASS: A14 A32 A35 A94 T06

CPI-CODES: A11-A04; A11-B07A; A11-C03; A12-T04;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Multipunch Codes: 012 03- 231 232 233 315 368 371 375 382

386 388 389 391 415

421 435 445 450 477 502 575 596 615 672

DERWENT-ACC-NO: 1993-250596

DERWENT-WEEK: 199835

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TITLE: Using recycled plasticiser-contg.
PVB - in mfr. of floor coverings with fillers, auxiliary
aids and polyacrylate

INVENTOR: BLASS, R

PATENT-ASSIGNEE: TARKETT PEGULAN AG[TARK]

PRIORITY-DATA: 1992DE-4202948 (February 1, 1992)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	MAIN-IPC
DE 4202948 A1		August 5, 1993	N/A
004	C08L 029/14		

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
DE 4202948A1	N/A	
1992DE-4202948	February 1, 1992	

INT-CL (IPC): B32B027/30, C08J011/06 , C08L029/14 ,
C08L033/08 ,
D06N007/02

ABSTRACTED-PUB-NO: DE 4202948A

BASIC-ABSTRACT:

Use of recycled plasticiser-contg. polyvinyl-butyril as raw
material in the
mfr. of floor coverings (I) contg. usual fillers and
auxiliary aids comprises a
compsn. contg. 5-20% polyacrylate.

Also claimed are: (i) (I); (ii) prepn. of (I) comprising
mfg. the PVB-contg.
layer by calendaring and the layers are joined using a
plastisole or by
duplicating or triplicating of corresp. layers.

ADVANTAGE - The recycled PVB prods. are stronger and more
water-resistant than
the original PVB

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: RECYCLE PLASTICISED CONTAIN MANUFACTURE FLOOR
COVER FILL AUXILIARY
AID POLYACRYLATE

ADDL-INDEXING-TERMS:
POLYVINYL BUTYRAL

DERWENT-CLASS: A14 A93 F08 P73

CPI-CODES: A04-F06E; A08-P01; A08-R01; A10-E02; A11-B03;
A11-C03; A12-R03;
F04-B02;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1278U; 5243U

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

017 ; P1672 P1865

Polymer Index [1.2]

017 ; G0339*R G0260 G0022 D01 D12 D10 D51 D53 D63 F41 ;
H0000 ;

H0011*R ; P0088

Polymer Index [1.3]

017 ; Q9999 Q6848 Q6826 ; ND01 ; B9999 B4091*R B3838
B3747 ; B9999

B4706*R B4568 ; K9676*R ; K9574 K9483 ; K9483*R ; B9999
B3509 B3485

B3372

Polymer Index [1.4]

017 ; N9999 N6906 ; N9999 N6928 ; N9999 N5721*R ; N9999
N6940 N6939

; N9999 N6246 ; N9999 N7192 N7023 ; K9449

Polymer Index [1.5]

017 ; A999 A384 ; A999 A340*R

Polymer Index [1.6]

017 ; R01278 D00 F44 C* 4A O* 6A Ca 2A ; A999 A237
Polymer Index [2.1]
017 ; P0000 ; S9999 S1047 S1014
Polymer Index [2.2]
017 ; Q9999 Q6848 Q6826 ; ND01 ; B9999 B4091*R B3838
B3747 ; B9999
B4706*R B4568 ; K9676*R ; K9574 K9483 ; K9483*R ; B9999
B3509 B3485
B3372
Polymer Index [2.3]
017 ; Q9999 Q6644*R

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0054 0057 0060 0063 0066 0147 0150 0153 0165
0168 0231 0486 0487
1992 2211 2220 2231 2236 2315 2401 2416 2419 2488 2502 2609
2629 2682 2694 3251
Multipunch Codes: 017 034 04- 06- 074 08& 081 10- 15- 17&
17- 18& 18- 19& 19-
20& 231 232 233 308 314 315 421 430 431 446 45- 53& 532 533
535 541 549 551 567
613 614 654 688 017 04- 330 397 53& 532 533 535 541 549 551
567 609 613 614

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1993-111086
Non-CPI Secondary Accession Numbers: N1993-193008

DERWENT-ACC-NO: 1995-161757

DERWENT-WEEK: 200215

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TITLE: Compsn. for films or thermoformable
sheets - has uniform blend of amide!, recovered
plasticised vinyl! butyral and
opt. elastomeric ethylene! copolymer
having pendant succinic anhydride gps.

INVENTOR: BLATZ, P; BLATZ, P S

PATENT-ASSIGNEE: DU PONT DE NEMOURS & CO E I[DUPO]

PRIORITY-DATA: 1993US-0135244 (October 13, 1993) ,
1997US-0822577 (March 20,
1997)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	
LANGUAGE		MAIN-IPC	
WO 9510561 A1		April 20, 1995	E
020	C08J	011/04	
DE 69429453 E		January 24, 2002	N/A
000	C08J	011/06	
EP 737225 A1		October 16, 1996	E
000	C08J	011/06	
JP 09506377 W		June 24, 1997	N/A
021	C08L	077/00	
US 5770654 A		June 23, 1998	N/A
000	C08L	077/00	
EP 737225 A4		January 1, 1997	N/A
000	C08J	011/04	
JP 3217370 B2		October 9, 2001	N/A
012	C08L	077/00	
EP 737225 B1		December 12, 2001	E
000	C08J	011/06	

DESIGNATED-STATES: CA JP AT BE CH DE DK ES FR GB GR IE IT

LU MC NL PT SE BE CH
DE FR GB IT LI NL BE CH DE FR GB IT LI NL

CITED-DOCUMENTS: US 3626026; US 5013780 ; US 5281674 ; US
5332774 ; 2.Jnl.Ref
; DE 4202948 ; EP 289632 ; EP 360420 ; EP 471658 ; JP
57167339 ; SU 1171486
; WO 9302141

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
WO 9510561A1	N/A	
1994WO-US11044	October 6, 1994	
DE 69429453E	N/A	
1994DE-0629453	October 6, 1994	
DE 69429453E	N/A	
1994EP-0930517	October 6, 1994	
DE 69429453E	N/A	
1994WO-US11044	October 6, 1994	
DE 69429453E	Based on	EP 737225
N/A		
DE 69429453E	Based on	WO 9510561
N/A		
EP 737225A1	N/A	
1994EP-0930517	October 6, 1994	
EP 737225A1	N/A	
1994WO-US11044	October 6, 1994	
EP 737225A1	Based on	WO 9510561
N/A		
JP 09506377W	N/A	
1994WO-US11044	October 6, 1994	
JP 09506377W	N/A	
1995JP-0511858	October 6, 1994	
JP 09506377W	Based on	WO 9510561
N/A		
US 5770654A	Cont. of	
1993US-0135244	October 13, 1993	
US 5770654A	N/A	
1997US-0822577	March 20, 1997	
EP 737225A4	N/A	
1994EP-0930517	October 6, 1994	
JP 3217370B2	N/A	
1994WO-US11044	October 6, 1994	
JP 3217370B2	N/A	
1995JP-0511858	October 6, 1994	
JP 3217370B2	Previous Publ.	JP 9506377

DERWENT-ACC-NO: 1995-256240

DERWENT-WEEK: 199849

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TITLE: Filled, halogen-free plastic floor
or wall covering - contains polyvinyl butyral other than
recycled polyvinyl butyral film material, together with
plasticiser, filler etc.

INVENTOR: GUENTHER, M; KOERNER, H ; SEIBERT, W

PATENT-ASSIGNEE: DUNLOP GMBH[DUNP] , DUNLOP TECH
GMBH[DUNP]

PRIORITY-DATA: 1994DE-4402077 (January 25, 1994)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	MAIN-IPC
EP 664355 A2		July 26, 1995	G
005	D06N	003/04	
DE 59503654 G		October 29, 1998	N/A
000	D06N	003/04	
DE 4402077 A1		July 27, 1995	N/A
004	D06N	007/02	
EP 664355 A3		September 25, 1996	N/A
000	D06N	003/04	
EP 664355 B1		September 23, 1998	G
000	D06N	003/04	

DESIGNATED-STATES: AT BE CH DE FR GB IT LI NL SE AT BE CH
DE FR GB IT LI NL SE

CITED-DOCUMENTS: DE 4202948; EP 471658 ; US 2552600

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		

EP 664355A2	N/A	
1995EP-0100924	January 24, 1995	
DE 59503654G	N/A	
1995DE-0503654	January 24, 1995	
DE 59503654G	N/A	
1995EP-0100924	January 24, 1995	
DE 59503654G	Based on	EP 664355
N/A		
DE 4402077A1	N/A	
1994DE-4402077	January 25, 1994	
EP 664355A3	N/A	
1995EP-0100924	January 24, 1995	
EP 664355B1	N/A	
1995EP-0100924	January 24, 1995	

INT-CL (IPC): A47G027/00, B29C043/24 , C08J003/18 ,
C08J005/18 ,
C08J011/04 , C08K003/00 , C08K003/26 , C08K005/00 ,
C08K005/12 ,
C08L029/14 , D06N003/04 , D06N007/02 , E04F013/18 ,
E04F015/10

ABSTRACTED-PUB-NO: EP 664355A

BASIC-ABSTRACT:

Filled plastic floor or wall covering (I) contains 8-25
(pref. 10-14) wt.%
plastic consisting mainly of non-standard polyvinylbutyral
(NT-PVB) (i.e. not
recycled PVB film) and 20-70 (pref. 30-60) wt.%
(plasticiser (w.r.t. amt. of
PVB), together with fillers and other additives etc..

Also claimed is a process for the prodn. of (I), comprising
mixing the
components in a kneader at 150-200 deg. C, roll-milling to
sheet, calendaring
to obtain the required final thickness and surface finish,
contact- and/or
air-cooling, and punching out the sheet.

USE - Used for the prodn. of halogen-free floor and wall
coverings.

ADVANTAGE - Enables the economical prodn. of halogen-free

floor and wall coverings with physical properties at least as good as those of PVC-based prods., esp. high scratch resistance, good wear resistance and good gluing properties. The use of unplasticised NT-PVB rather than recycled PVB film overcomes the problems of soiling and odour associated with plasticiser migration.

ABSTRACTED-PUB-NO: EP 664355B

EQUIVALENT-ABSTRACTS:

Filled plastic floor or wall covering (I) contains 8-25 (pref. 10-14) wt.% plastic consisting mainly of non-standard polyvinylbutyral (NT-PVB) (i.e. not recycled PVB film) and 20-70 (pref. 30-60) wt.% (plasticiser (w.r.t. amt. of PVB), together with fillers and other additives etc..

Also claimed is a process for the prodn. of (I), comprising mixing the components in a kneader at 150-200 deg. C, roll-milling to sheet, calendaring to obtain the required final thickness and surface finish, contact- and/or air-cooling, and punching out the sheet.

USE - Used for the prodn. of halogen-free floor and wall coverings.

ADVANTAGE - Enables the economical prodn. of halogen-free floor and wall coverings with physical properties at least as good as those of PVC-based prods., esp. high scratch resistance, good wear resistance and good gluing properties. The use of unplasticised NT-PVB rather than recycled PVB film overcomes the problems of soiling and odour associated with plasticiser migration.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: FILLED HALOGEN FREE PLASTIC FLOOR WALL COVER
CONTAIN POLYVINYL
BUTYRAL RECYCLE POLYVINYL BUTYRAL FILM MATERIAL
PLASTICISED FILL

DERWENT-CLASS: A14 A32 A93

CPI-CODES: A08-P01; A08-R01; A10-E02; A11-B03; A12-R03;
A12-R07;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

017 ; P1672 P1865 D01 ; S9999 S1285*R ; S9999 S1581 ;
M9999 M2073

Polymer Index [1.2]

017 ; N9999 N6439 ; N9999 N6939*R ; N9999 N6940 N6939 ;
N9999 N5812*R
; N9999 N6315 N6268 ; J9999 J2915*R ; J9999 J2960 J2915
; K9392

; K9723 ; N9999 N6097*R ; B9999 B3554*R ; B9999 B3714
B3690 ; B9999

B3758*R B3747 ; B9999 B5243*R B4740 ; Q9999 Q6848 Q6826
; Q9999

Q6893 Q6826 ; B9999 B3816 B3747 ; B9999 B5287 B5276 ;
B9999 B5301

B5298 B5276 ; B9999 B3485*R B3372 ; B9999 B4499 B4466 ;
K9449 ;

B9999 B3532 B3372 ; ND01 ; ND04 ; B9999 B5389 B5276

Polymer Index [1.3]

017 ; G3123*R D01 D19 D18 D63 F41 E00 E19 D11 D10 D31
D50 D94 ;

R00982 G3123 D01 D11 D10 D19 D18 D31 D50 D63 D94 F41
E00 E19 ; A999

A384

Polymer Index [1.4]

017 ; G3452 R01278 D00 F44 C* 4A O* 6A Ca 2A ; A999
A237

Polymer Index [1.5]

017 ; A999 A157*R

Polymer Index [1.6]

017 ; A999 A102 A077

Polymer Index [2.1]

017 ; G1821*R D01 F78 ; R00859 G1809 G1649 D01 D23 D22
D31 D45 D50

D83 F19 F10 F07 ; P0259*R P0226 D01 ; H0011*R ; A999
A157*R ; A999

A782

Polymer Index [2.2]

017 ; P0226 P0282*R D01 D18 F30 ; A999 A157*R ; A999

A782

Polymer Index [2.3]

017 ; P0464*R D01 D22 D42 F47 ; A999 A157*R ; A999 A782

Polymer Index [2.4]

017 ; K9745*R

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1995-117073

DERWENT-ACC-NO: 1994-084335

DERWENT-WEEK: 199411

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TITLE: Phenolic resin laminates with good
cutting and embossing properties - by impregnating paper
etc. with phenolic resin soln. contg. recycled or scrap
polyvinyl-butyrals, then drying and hot-pressing as usual

INVENTOR: FASBENDER, H; MOEBES, W

PATENT-ASSIGNEE: HUELS TROISDORF AG[HUTR]

PRIORITY-DATA: 1992DE-4229711 (September 5, 1992)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	MAIN-IPC
DE 4229711 A1		March 10, 1994	N/A
003	C08L 061/04		

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
DE 4229711A1	N/A	
1992DE-4229711	September 5, 1992	

INT-CL (IPC): B29B017/02, B32B027/42, B32B029/06,
C08J005/04,
C08J011/08, C08L029/14, C08L061/04, D21H019/24

ABSTRACTED-PUB-NO: DE 4229711A

BASIC-ABSTRACT:

Laminate or sheet material, or pressed or coiled moulded
prods. (I) are
claimed. (I) are produced by impregnating paper strips,

fleece, woven fabric,
etc. with phenolic, cresolic and/or xylenolic resin (II)
with addn. of
polyvinylbutyral (PVB), followed by drying and hardening in
one or more layers
at elevated temp. and pressure. The PVB is recycled
material or waste prodn.
material, in amts. of 5-35 wt.% w.r.t. solids content of
resin soln.

Also claimed are processes for producing laminated paper
(I) and for
reprocessing recycled/waste PVB, by adding the PVB, pref.
as a soln., to a
soln. of (II) as above.

USE/ADVANTAGE - The use of recycled or scrap PVB, esp. for
laminated glass, as
an additive for prodn. of resin solns. (II) is claimed.
(I) are used, e.g. as
sheet materials, tubes, and semi-finished prods., and for
the prodn. of
electrical insulating materials, etc. The addn. of PVB
(together with the
plasticisers contained in the PVB) enables the prodn. of
laminated paper with
improved properties, i.e. less brittleness, better cutting
and embossing
properties and better interlaminar bonding; a high resin
level can be obt'd.
with conc. solns.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: PHENOLIC RESIN LAMINATE CUT EMBOSS PROPERTIES
IMPREGNATE PAPER

PHENOLIC RESIN SOLUTION CONTAIN RECYCLE SCRAP
POLYVINYL BUTYRAL DRY
HOT PRESS USUAL

DERWENT-CLASS: A14 A21 A32 A94 P73

CPI-CODES: A05-C03A; A10-E02; A11-B09; A11-C03; A12-B03;
A12-S07A; A12-S08A;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 5143U

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0004 0011 0213 0217 0224 0228 0787 1277 1357
1359 1992 2020 2198
2212 2215 2220 2231 2233 2235 2236 2325 2329 2378 2386 2401
2419 2458 2459 2479
2491 2492 2493 2506 2507 2522 2532 2534 2542 2545 2654 2723
2725 2737 2830 3252
Multipunch Codes: 017 03& 038 140 213 214 215 216 231 308
309 315 331 359 374
402 408 409 431 44& 440 442 45- 455 456 46& 465 466 468 473
476 477 487 489 502
54& 575 596 597 600 623 627 654 674 722 723 726 017 231 232
233 239 311 315 332
368 393 398 421 427 44& 479 726 017 066 067 239 311 315 44&
688

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1994-038726
Non-CPI Secondary Accession Numbers: N1994-065981